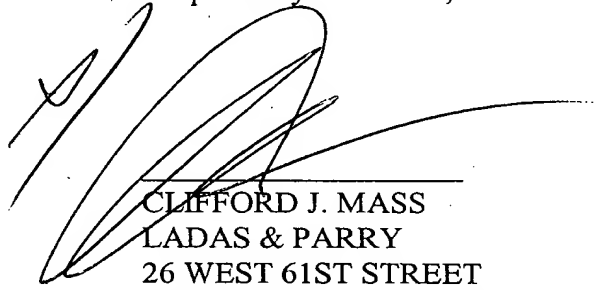


**REMARKS**

The above amendatory action is taken to avoid claim fees that would otherwise accrue due to the presence of multiply dependent and to eliminate doubly dependent claims.

Respectfully submitted,



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### MARK-UP

3. (Amended) An isolated DNA sequence according to claim 1 [or 2], obtained from a plant of *Petunia hybrida*, the sequence consisting essentially of the sequence given in SEQ ID N0:7, or a functional fragment thereof having promoter activity.

5. (Amended) An isolated DNA sequence according to claim 4 having:

- a) a nucleotide sequence given in SEQ ID N0:4, or
- b) a nucleotide sequence that hybridises with the nucleotide sequence of (a) or with a fragment of (a) under the following hybridisation conditions: pre-hybridisation for 1h at about 65 °C in a solution of Church and Gilbert, comprising 0.5 M sodium phosphate, pH 7.2, 1 mM EDTA, 1% BSA, 7% SDS, followed by hybridisation in the same solution for 18h at about 65 °C, followed by washing three times in 0.1 x SSC, 0.1% SDS at about 65 °C for 30 min. [as defined in claim 2], or
- c) a nucleotide sequence that has at least 85% homology to the nucleotide sequence of a).

9. (Amended) An isolated DNA sequence according to claim 8, having:

- a) a nucleotide sequence given in SEQ ID N0:6 obtained from a plant of *Calluna vulgaris*, or
- b) a nucleotide sequence that hybridises with the nucleotide sequence given in a), under the following hybridisation conditions: pre-hybridisation for 1h at about 65 °C in a solution of Church and Gilbert, comprising 0.5 M sodium phosphate, pH 7.2, 1 mM EDTA, 1% BSA, 7% SDS, followed by hybridisation in the same solution for 18h at about 65 °C, followed by washing three times in 0.1 x SSC, 0.1% SDS at about 65 °C for 30 min. [as defined in claim 2], or
- c) a nucleotide sequence that has at least 95% homology to the nucleotide sequence of a).

10. (Amended) A recombinant double-stranded DNA molecule comprising an expression cassette comprising the following constituents:

- i) a promoter functional in plants,
- ii) DNA sequence coding for a protein as defined in claim 4 [any of claims 4 to 7] which is fused to the promoter sequence in sense or antisense orientation, and optionally
- iii) a signal sequence functional in plants for the transcription determination and polyadenylation of an RNA molecule.

13. (Amended) A recombinant double-stranded DNA molecule according to claim 11 [or 12] wherein the promoter is an isolated DNA sequence from the promoter region upstream of a nectary-specific expressed sequence, which nectary-specific expressed sequence encodes a protein comprising the amino acid sequence given in SEQ ID NO:1, or a protein that has at least 60% homology to the amino acid sequence given in SEQ ID NO:1. [as defined in any of claims 1-3].

14 (Amended) A recombinant double-stranded DNA molecule according to claim 12 [or 13] wherein the DNA sequence encoding a signal peptide is an isolated DNA sequence comprising the coding region for a signal peptide, wherein the information contained in the DNA sequence permits, upon translational fusion with a DNA sequence encoding a protein that is expressed in nectaries, targeting of the protein to nectar. [as defined in claim 8 or 9].

15. (Amended) A process for producing a transgenic plant exhibiting excretion of a recombinant protein in its nectar, comprising:

- i) introducing in a plant cell a recombinant double-stranded DNA-molecule as defined in claim 12 [any of claims 12 to 14], wherein the recombinant protein is excreted in nectar,
- ii regenerating plants from the transgenic cell, and
- iii) selecting transgenic plants.

16. (Amended) A process for producing a transgenic plant exhibiting a modified nectar composition, comprising:

- i) introducing in a plant cell a recombinant double-stranded DNA-molecule as defined in claim [any of claims] 11 [to 14], wherein the recombinant protein interferes with metabolic pathways in the nectaries,
- ii) regenerating plants from the transgenic cell, and
- iii) selecting transgenic plants.

17. (Amended) A process for producing a transgenic plant exhibiting a modified nectar secretion, comprising:

- i) introducing in a plant cell a recombinant double-stranded DNA-molecule as defined in claim [any of claims] 11 [to 14], wherein the recombinant protein interferes with sink strength of nectaries,
- ii) regenerating plants from the transgenic cell, and
- iii) selecting transgenic plants.

18. (Amended) A process for producing a transgenic plant exhibiting a modified nectary development, comprising:

- ii) introducing in a plant cell a recombinant double-stranded DNA-molecule as defined in claim [claims] 11 [or 14], wherein the recombinant protein interferes with the development of nectaries,
- ii) regenerating plants from the transgenic cell, and
- iii) selecting transgenic plants.

19. (Amended) A process for producing honey from modified nectar of transgenic plants, comprising:

- i) producing a transgenic plant by introducing in a plant cell a recombinant double-stranded DNA molecule as defined in claim [any of claims] 11 [to 14], regenerating plants from the transgenic cell, and selecting modified plants exhibiting the excretion of nectar with a modified composition,
- ii) allowing insects[, preferably bees,] to collect nectar from the transgenic plants and to process the nectar into honey.

20. (Amended) A process for producing a recombinant gene product from honey, comprising:

- i) producing a transgenic plant by introducing in a plant cell a recombinant- double-stranded DNA molecule as defined in claim [any of claims] 12 [to 14], regenerating plants from the transgenic cell, and selecting modified plants exhibiting excretion of the recombinant gene product in nectar,
- ii) allowing insects[, preferably bees,] to collect nectar from the transgenic plants and to process the nectar into honey, and
- iii) isolating and purifying the gene product from the honey.

22. (Amended) Micro organisms containing DNA sequences according to claim [one or more of claims] 1 [to 9].

23. (Amended) Micro organisms containing recombinant DNA molecules according to claim [any of claims] 10 [to 14].

24. (Amended) A plant cell or plant cell culture transformed with one or more DNA sequences according to claim [claims] 1 [to 9].

25. (Amended) A plant cell or plant cell culture transformed with recombinant DNA molecules according to claim [any of] 10 [to 14].

26. (Amended) A plant consisting essentially of the plant cells of claim [claims] 24 [or 25].

27. (Amended) A transgenic plant obtained by the process of claim [any of claims] 15 [to 18].